

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Attorney Docket Number: RAL919980074US2/4269-6ICT		Serial No.: to be assigned	
				Applicants: Abdelilah et al.			
				Filing Date: concurrently herewith		Group: unknown	
U. S. PATENT DOCUMENTS							
Examine Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>Flu</i>	1	6,002,723	12/14/99	Chethik	375	317	
<i>↑</i>	2	6,005,893	12/21/99	Hyll	375	260	
	3	6,081,822	06/27/00	Hillery et al.	708	445	
	4	6,052,412	04-18-00	Ruether et al.	375	231	
	5	6,091,824	7/2000	Lin et al.	381	63	
	6	6,148,423	11-14-00	Le Mouel et al.	714	708	
	7	6,151,364	11-21-00	Ruether et al.	375	254	
	8	6,151,614	11-21-00	Ikeda	708	322	
	9	6,141,378	10/31/00	d'Orcye de Lantremange	375	232	
	10	6,167,095	12/26/00	Furukawa et al.	375	285	
	11	6,240,128	5/2001	Banerjee et al.	375	222	
	12	6,292,654	9/2001	Hessel et al.	375	346	
	13	6,304,594 B1	10/16/01	Salinger	375	222	
	14	6,337,999	1/2002	Orban	381	106	
	15	6,341,360	1/2002	Abdelilah et al.	375	233	
	16	5,517,213	05-14-96	Bhatt et al.	375	232	
	17	5,526,378	06-11-96	Knutson et al.	375	229	
	18	5,668,833	09-16-97	Kurokami et al.	375	233	
	19	5,742,642	04-21-98	Fertner	375	233	
	20	5,999,349	12-07-99	Choi	360	46	
	21	5,007,047	4/8/91	Sridhar et al.	370	32.1	
	22	5,249,205	09-28-93	Chennakeshu et al.	375	101	
	23	5,271,011	12-14-93	McMullan, Jr. et al.	371	5.3	
	24	5,293,401	03-08-94	Serfaty	375	13	
	25	5,309,484	05-03-94	McLane et al.	375	106	
	26	5,490,169	02-06-96	Blackwell et al.	375	232	
	27	5,471,508	11/28/95	Koslov	375	344	

 EXAMINER
 *EXAMINER

Pamela Hume

DATE CONSIDERED 2/2005

Initial if reference considered, whether or not citation is in conformance with MPEP 609: draw line through citation if not in

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number:
RAL919980074US2/4269-61CT

Serial No.:
to be assigned

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Applicants: Abdelilah et al.

Filing Date: concurrently herewith

Group: unknown

PM	28	5,710,793	01/20/98	Greenberg	375	232	
↑	29	5,987,069	11/16/99	Furukawa et al.	375	285	
	30	5,835,538	11/10/98	Townshend	375	295	
	31	5,831,561	11/3/98	Cai et al.	341	106	
	32	5,809,075	9/15/98	Townshend	375	340	
	33	5,801,695	9/1/98	Townshend	375	340	
	34	5,793,809	8/11/98	Holmquist	375	242	
	35	5,784,405	7/21/98	Betts et al.	375	222	
	36	5,778,024	7/7/98	McDonough	375	216	
	37	5,768,311	6/16/98	Betts et al.	375	222	
	38	5,761,247	6/2/98	Betts et al.	375	316	
	39	5,757,849	5/26/98	Gelblum et al.	375	222	
	40	5,754,594	5/19/98	Betts et al.	375	285	
	41	5,729,226	3/17/98	Betts et al.	341	94	
	42	5,598,401	1/28/97	Blackwell et al.	379	94	
	43	5,546,395	8/13/96	Sharma et al.	370	84	
	44	5,534,913	7/9/96	Majeti et al.	348	7	
	45	5,528,679	6/18/96	Taarud	379	34	
	46	5,528,625	6/18/96	Ayanoglu et al.	375	222	
	47	5,406,583	4/11/95	Dagdeviren	375	5	
	48	5,394,437	2/28/95	Ayanoglu et al.	375	222	
	49	5,394,110	2/28/95	Mizoguchi	329	304	
	50	5,291,479	3/1/94	Vaziri et al.	370	58.2	
	51	5,253,291	10/12/93	Naseer et al.	379	406	
	52	5,293,401	3/1994	Serfaty	375	231	
	53	5,210,755	5/11/93	Nagler et al.	370	108	
	54	5,157,690	10/20/92	Buttle	375	14	
	55	5,134,611	7/28/92	Steinka et al.	370	79	
	56	5,119,403	6/2/92	Krishnan	375	39	
	57	5,119,401	6/2/92	Tsujimoto	375	14	

EXAMINER
*EXAMINER

Pankaj Kumar

DATE CONSIDERED

2/2005

Initial if reference considered, whether or not citation is in conformance with MPEP 610; draw line through citation if not.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Attorney Docket Number: RAL919980074US2/4269-61CT		Serial No.: to be assigned	
				Applicants: Abdelilah et al.			
				Filing Date: concurrently herewith		Group: unknown	
<i>Ph</i>	58	5,067,125	11/19/91	Tsuchida	370	79	
<i>Ph</i>	59	5,052,000	9/24/91	Wang et al.	371	43	
	60	5,040,190	8/13/91	Smith et al.	375	4	
	61	5,033,062	7/16/91	Morrow et al.	375	7	
	62	5,014,299	5/7/91	Klupt et al.	379	98	
	63	4,995,030	2/19/91	Helf	370	32.1	
	64	4,985,902	1/15/91	Gurcan	375	14	
	65	4,972,360	11/20/90	Cuckier et al.	364	724.04	
	66	4,901,333	2/13/90	Hodgkiss	375	98	
	67	4,890,303	12/26/89	Bader	375	107	
	68	4,884,285	11/28/89	Heynen et al.	375	25	
	69	4,868,863	9/19/89	Hartley et al.	379	98	
	70	4,797,898	1/10/89	Martinez	375	7	
	71	4,792,964	12/1988	Yoshida	375	371	
	72	4,760,598	7/26/88	Ferrell	380	44	
	73	4,720,861	1/19/88	Bertrand	381	36	
	74	4,578,796	3/25/86	Caralambous et al.	375	8	
	75	4,577,310	3/18/86	Korsky et al.	370	58	
	76	4,450,556	5/22/84	Boleda et al.	370	58	
	77	4,434,322	2/28/84	Ferrell	178	22.13	
	78	4,270,027	5/26/81	Agrawal et al.	179	81R	
	79	4,237,552	12/2/80	Aikoh et al.	370	83	
	80	4,132,242	1/2/79	Carroll, Jr.	137	263	
	81	4,112,427	9/5/78	Hofer et al.	340	347	
	82	4,539,675	9/3/85	Fisher	370	32	
	83	3,729,717	4/24/73	de Koe et al.	340	172.5	
	84	3,683,120	8/8/72	Schenke	179	15A	
	85	3,557,308	1/19/71	Alexander et al.	178	69.5	

 EXAMINER
 *EXAMINER

Pamela R. Ruv

DATE CONSIDERED

7/2005

Initial if reference considered, whether or not citation is in conformance with MPEP 600; draw line through cited

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket Number: RAL919980074US2/4269-61CT		Serial No.: to be assigned	
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicants: Abdelilah et al.			
				Filing Date: concurrently herewith		Group: unknown	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
<i>Ph</i> <i>↑</i> <i>0 6 6 9 7 4 0 A 2</i> <i>0 6 5 9 0 0 7 A 2</i> <i>0 4 7 3 1 1 6 A 2</i> <i>2 3 4 5 0 1 9</i>	86	WO 98/37657	8/27/98	PCT	H04L		
	87	WO 96/18261	6/13/96	PCT	H04M	11/00	
	88	0 6 6 9 7 4 0 A 2	12/14/94	Europe	H04L	27/00	
	89	0 6 5 9 0 0 7 A 2	11/8/94	Europe	H04M	11/06	
	90	0 4 7 3 1 1 6 A 2	8/27/91	Europe	H04N	1/00	
	91	2 3 4 5 0 1 9	3/19/76	France	H04L	27/10	<i>Ab5</i>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>Ph</i> <i>↑</i> <i>0 4 9 0 8</i> <i>0 1 1</i> <i>0 0 1 1 1 0 5 0 0 0 1 1 0 0 5 1 0 1</i>	92	Erup, et al., "Interpolation in Digital Modems - Part II: Implementation and Performance," IEEE Transactions on Communications, Vol. 41, No. 6, June 1993, pp. 998-1008					
	93	Fischer, "Signal Mapping for PCM Modems," V-pcm Rapporteur Meeting, Sunriver, Oregon, USA, September 4-12, 1997, 5 pgs.					
	94	Gardner, "Interpolation in Digital Modems - Part I: Fundamentals," IEEE Transactions on Communications, Vol. 41, No. 3, March 1993, pp. 501-507					
	95	Humblet et al., "The Information Driveway," IEEE Communications Magazine, December 1996, pp. 64-68					
	96	Kalet et al., "The Capacity of PCM Voiceband Channels," IEEE International Conference on Communications '93, May 23-26, 1993, Geneva, Switzerland, pp. 507-511					
	97	Mueller et al., "Timing Recovery in Digital Synchronous Data Receiver," IEEE Transactions on Communications, Vol. Com-24, No. 5, May 1976, pp. 516-531					
	98	Okubo et al., "Building Block Design of Large Capacity PCM-TDMA Subscriber System and Direct Digital Interface to Digital Exchange," Japan Radio Co., Ltd., Japan, pp. 69-73					
	99	Pahlavan et al., "Nonlinear Quantization and the Design of Coded and Uncoded Signal Constellations," IEEE Transactions on Communications, Vol. 39, No. 8, August 1991, pp. 1207-1215					
	100	Proakis, "Digital Signaling Over a Channel with Intersymbol Interference," Digital Communications, McGraw-Hill Book Company, 1983, pgs. 373, 381					
	101	Williams et al., "Counteracting the Quantisation Noise from PCM Codecs," BT Laboratories, UK, pp. 24-29					
<i>Ph</i> <i>↑</i> <i>0 4 9 0 8</i> <i>0 1 1</i> <i>0 0 1 1 1 0 5 0 0 0 1 1 0 0 5 1 0 1</i>	102	Ayanoglu, et al.; <i>An Equalizer Design Technique for the PCM Modem: A New Modem for the Digital Public Switched Network</i> ; IEEE Transactions on Communications; Vol. 46, No. 6; June 1988; Pages 763-774					
	103	Picchi, G. et al.; <i>A blind Sag-So-DFD-FS equalizer</i> , Inst. Of Electron. & Telecommun., Pisa Univ., Italy, This paper appears in: Communications, 1988, ICC '88. Digital Technology - Spanning the Universe. Conference Record., IEEE International Conference					

EXAMINER
*EXAMINER

Initial if reference considered, whether or not citation is in conformance with MPEP 600- draw line through

DATE CONSIDERED 4/2002